

FIG. 1 Defective v. "Bogus" Load Modules Can Cause Problems

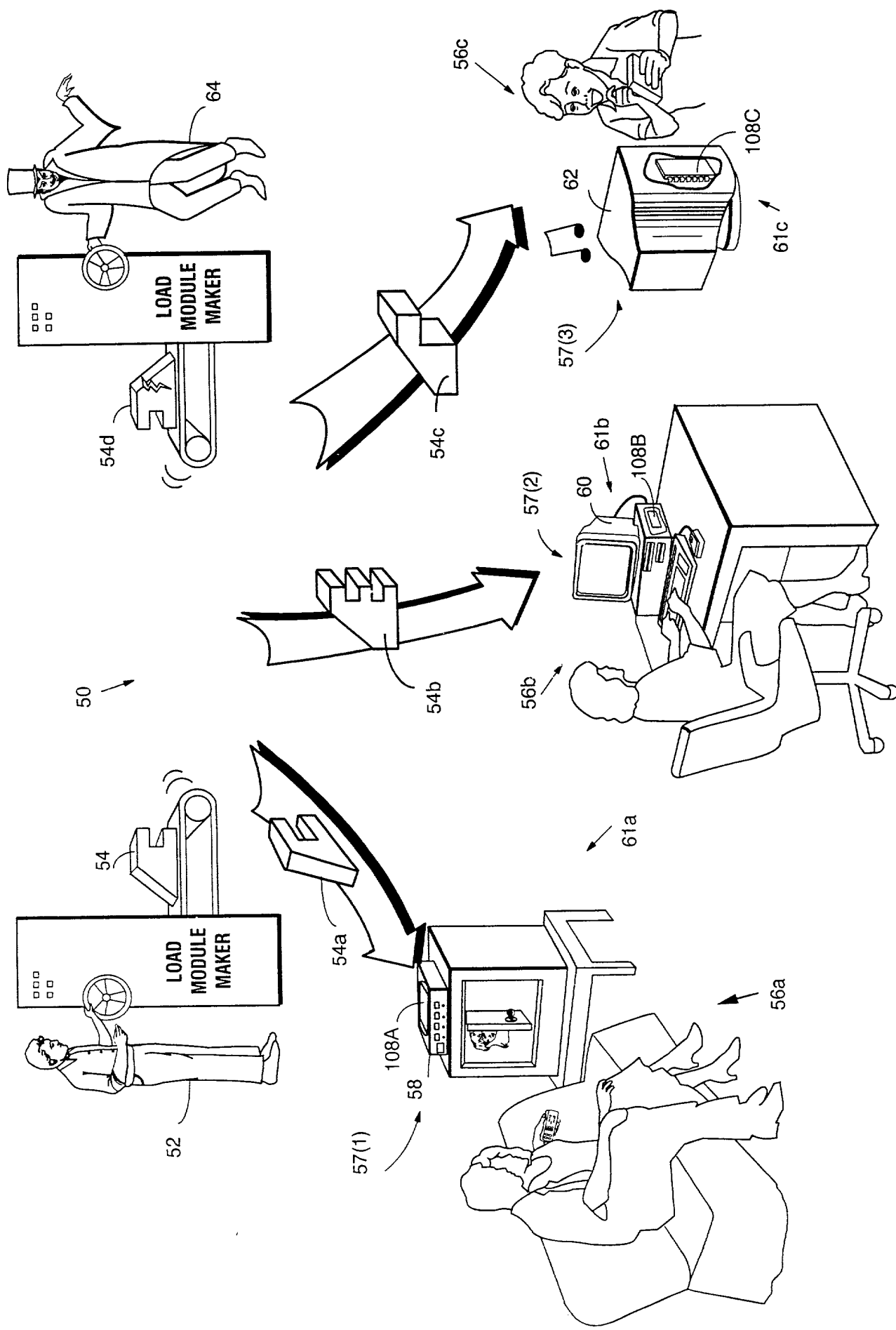


FIG. 2 Verifying Load Modules

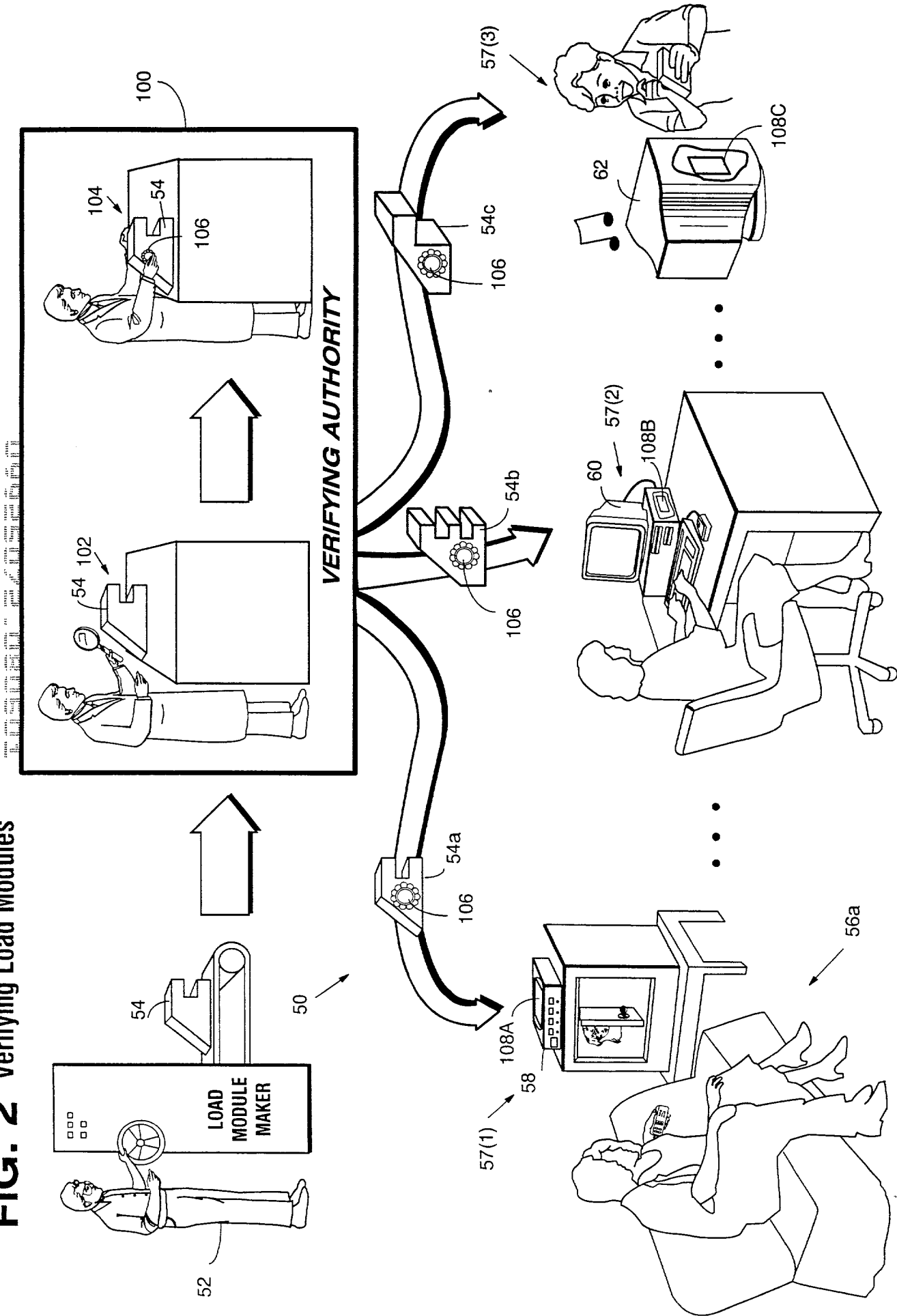
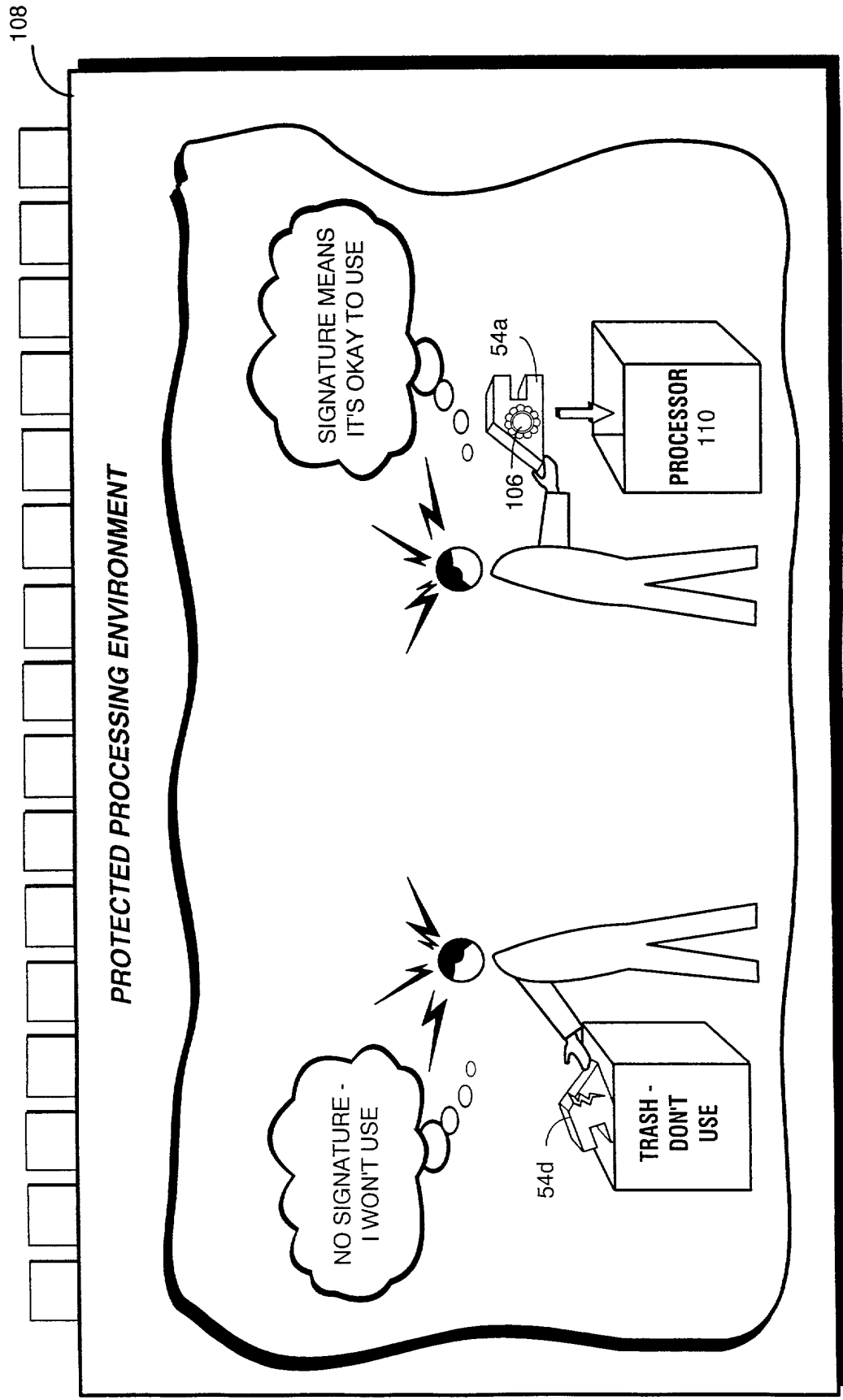


FIG. 3 Before Protected Processing Environment Uses A Load Module, It Checks To See If Load Module Has Been Verified



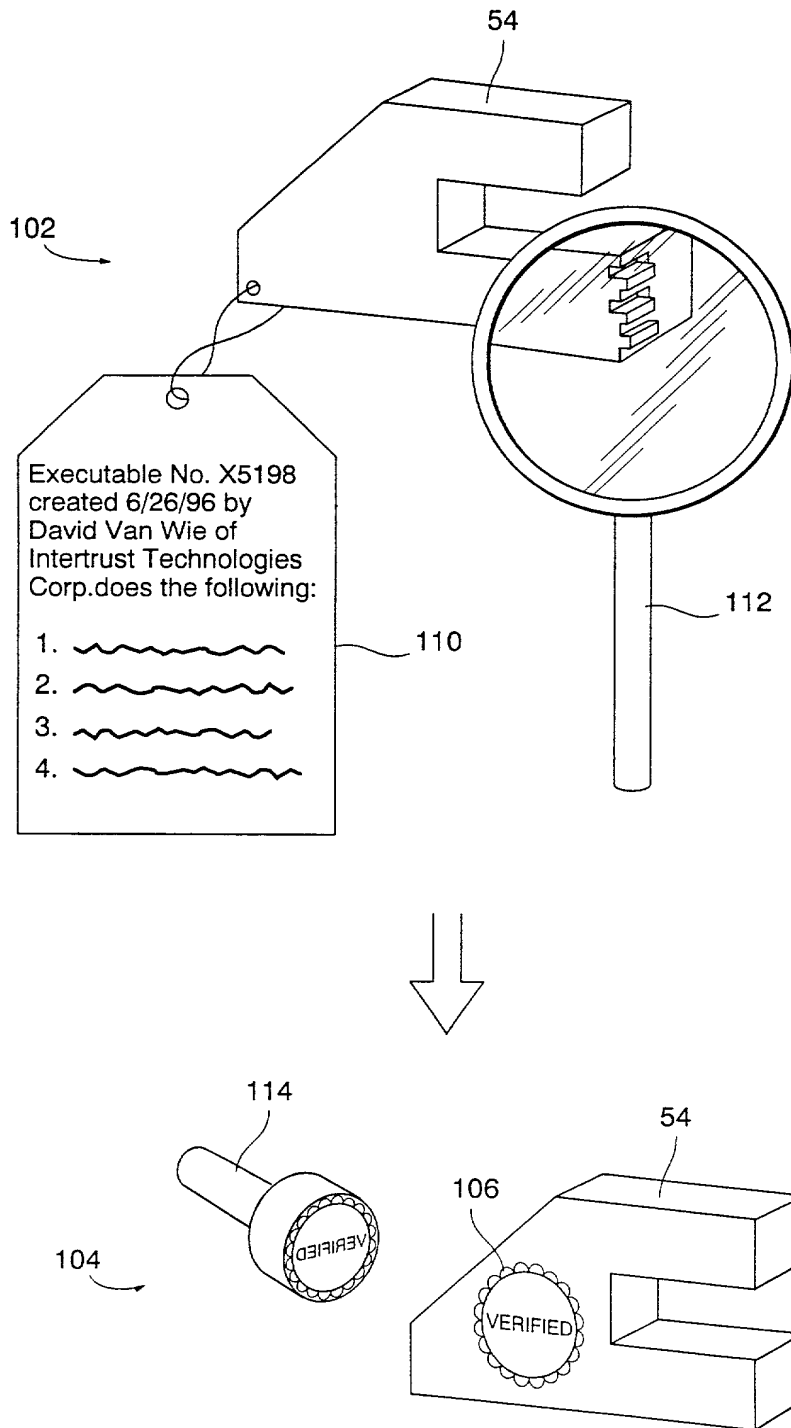


FIG. 4

**Certifying Load Module by
Checking it Against its Documentation**

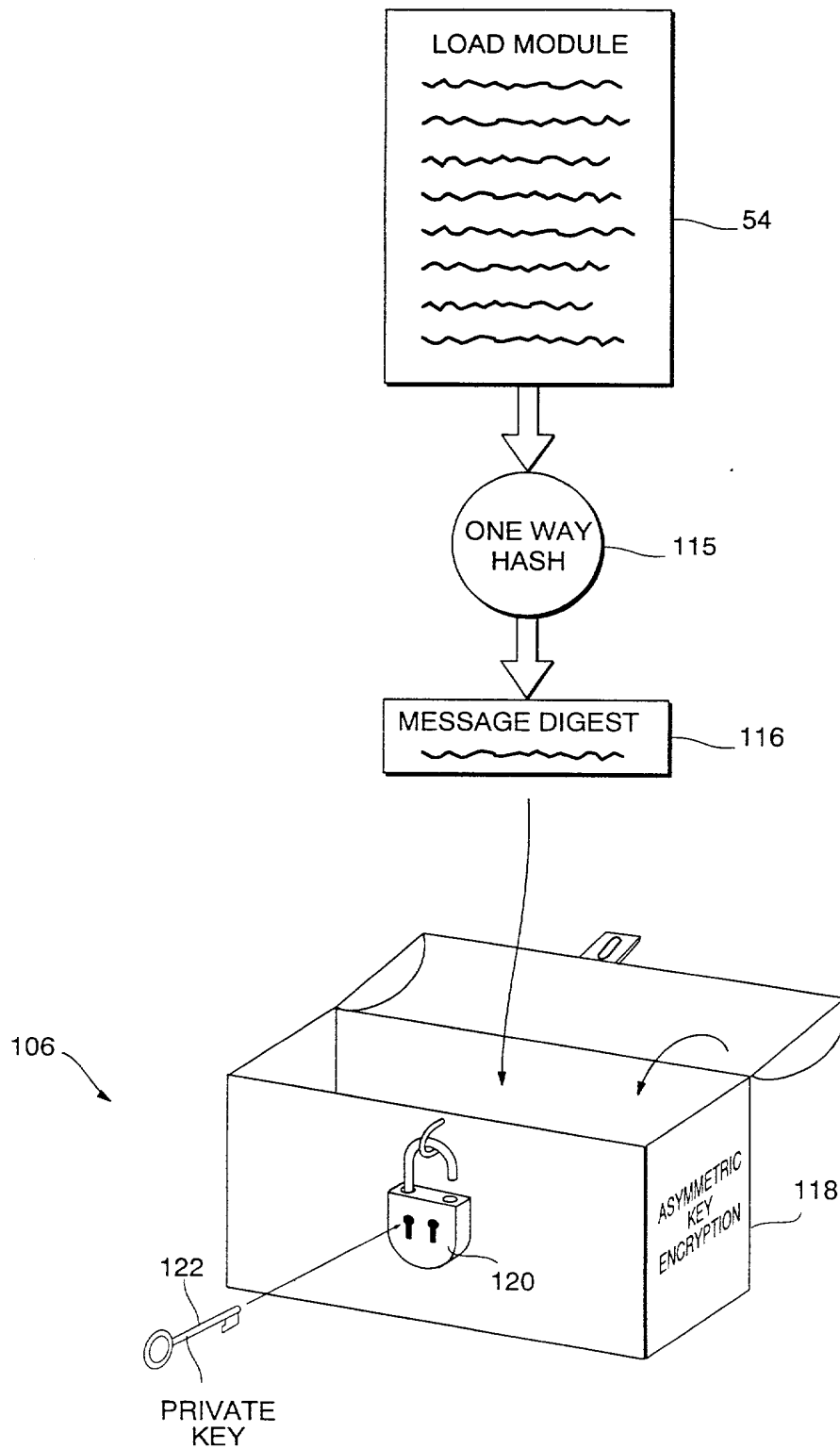


FIG. 5
Creating a Certifying
Digital Signature

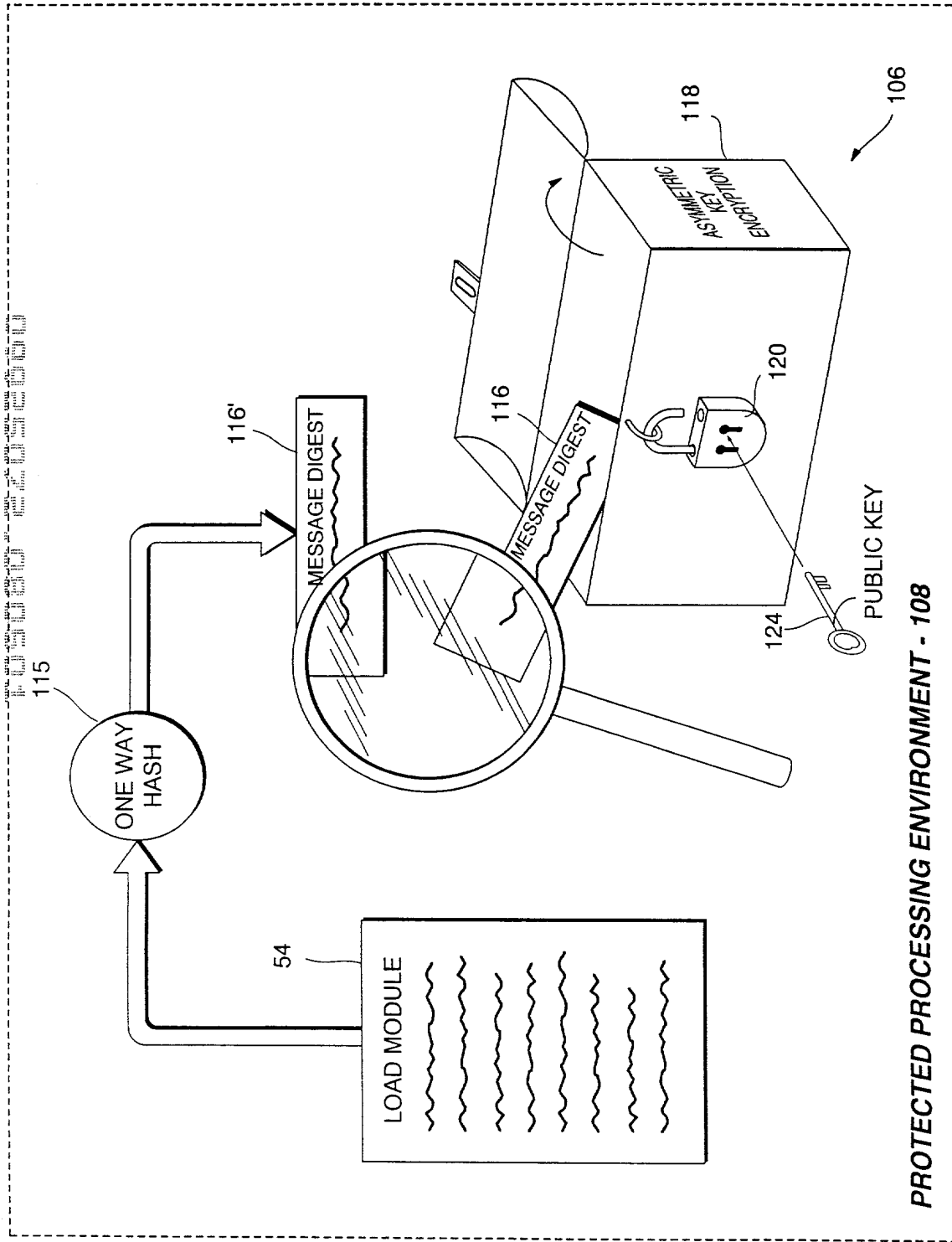


FIG. 6 Authenticating a Digital Signature

FIG. 7 Same Load Module Can Be Signed With Different Techniques

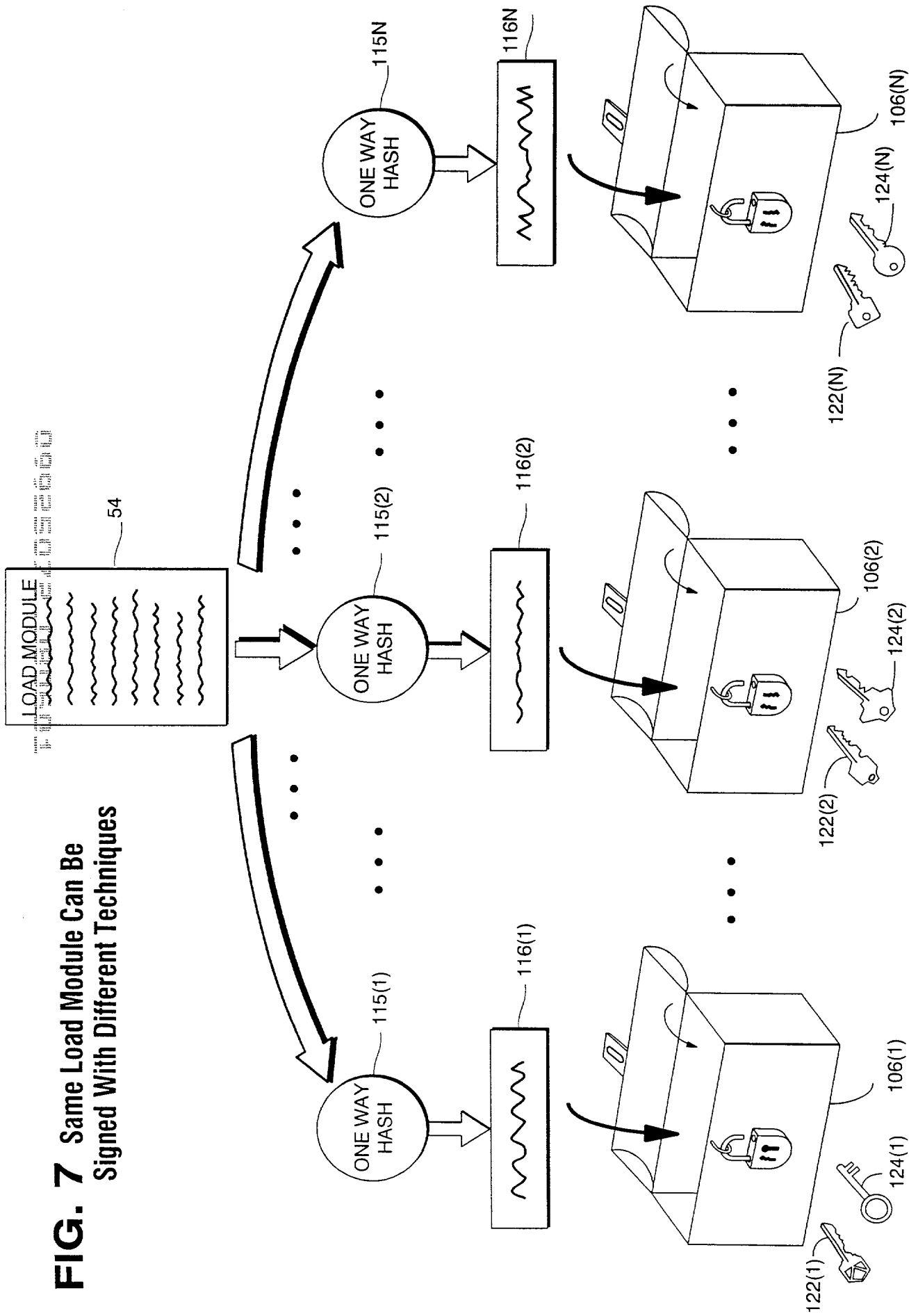


FIG. 8 Same Load Module Can Be Distributed with Multiple Signatures

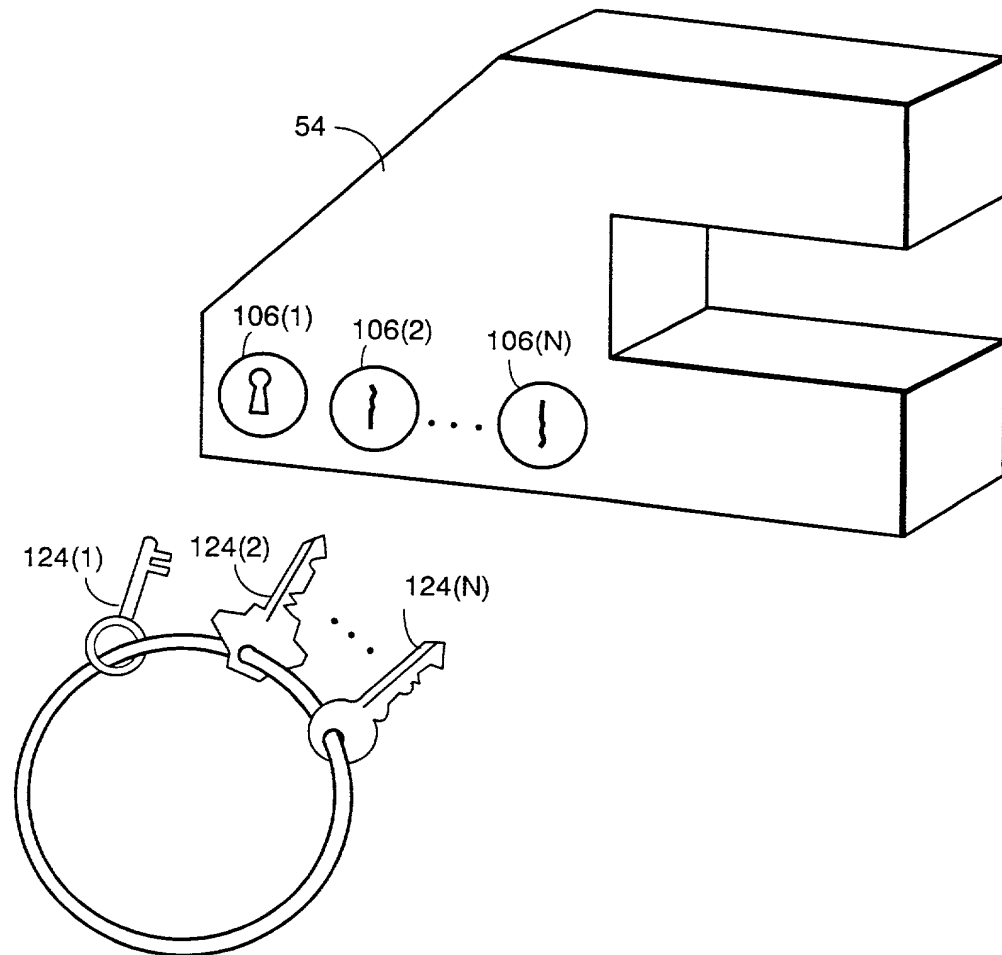


FIG. 8A Different Processing Environments Can Have Different Subsets of Keys

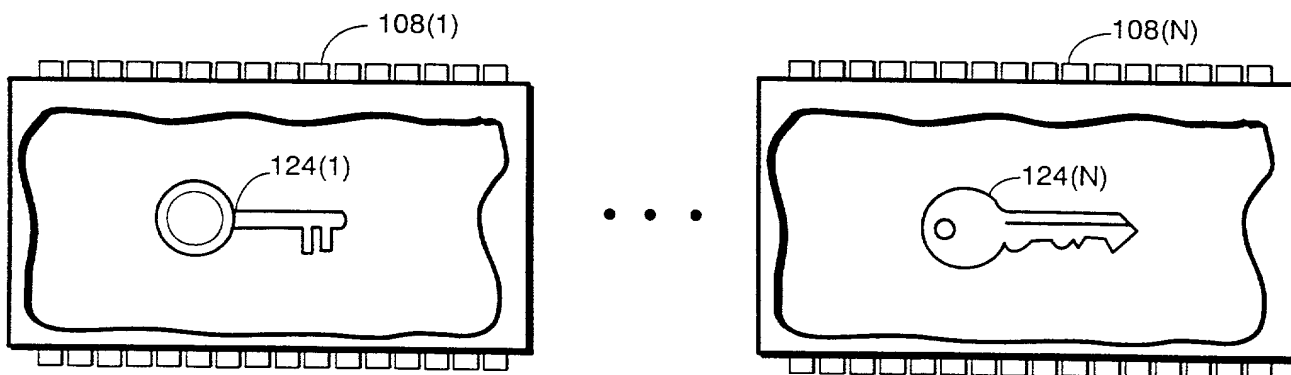
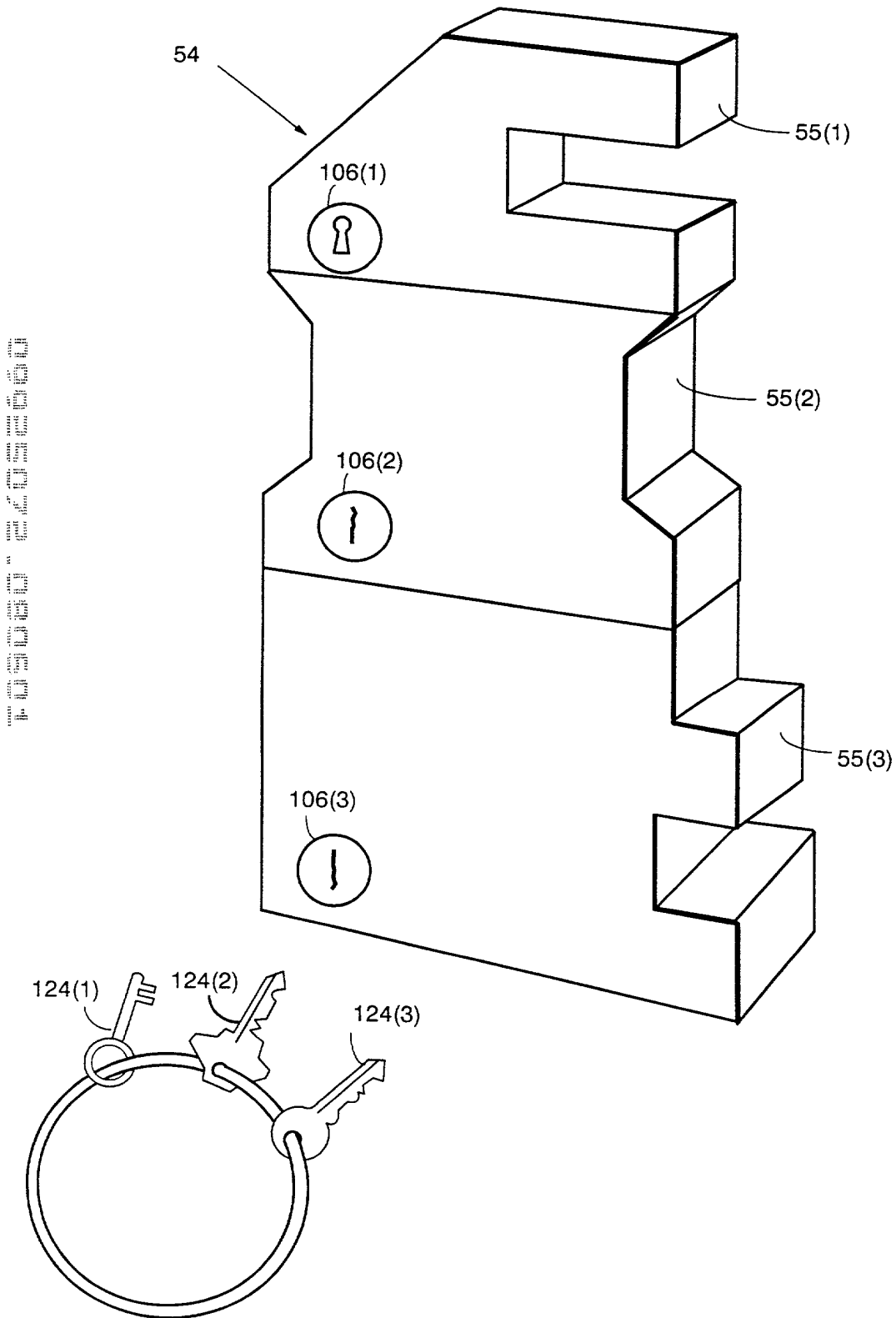


FIG. 9 Load Module Can Have Several Independently Signed Portions



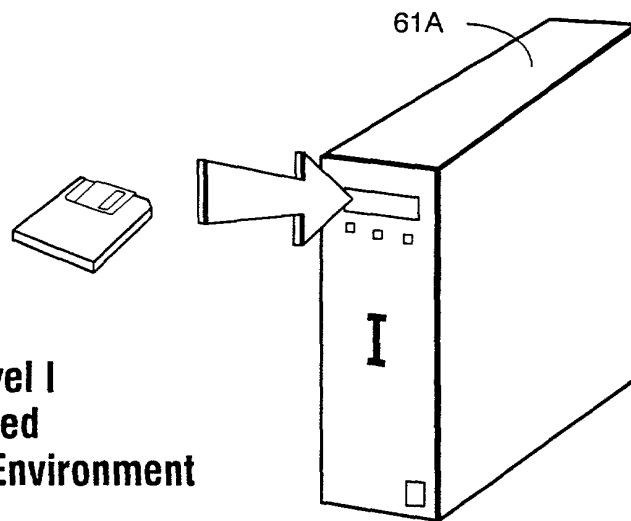


FIG. 10A Assurance Level I
Software-Based
Protected Processing Environment

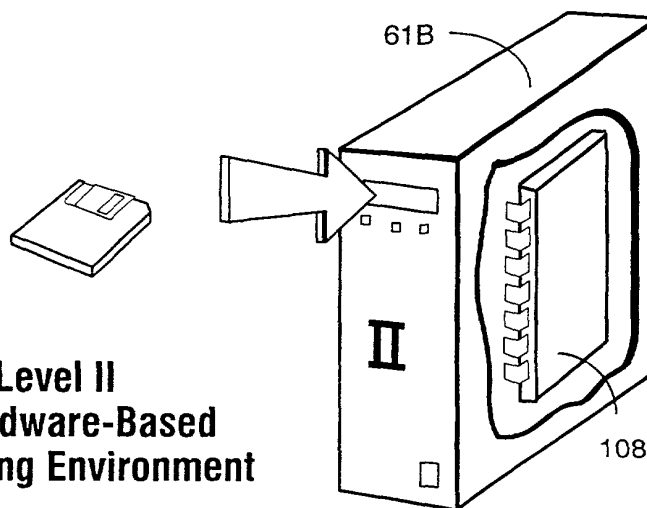


FIG. 10B Assurance Level II
Software and Hardware-Based
Protected Processing Environment

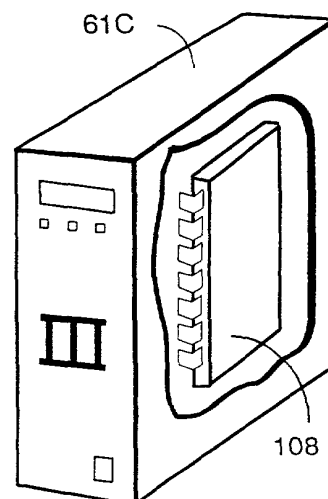


FIG. 10C Assurance Level III
Hardware-Based
Protected Processing Environment

FIG. 11A Level I
Digital Signature

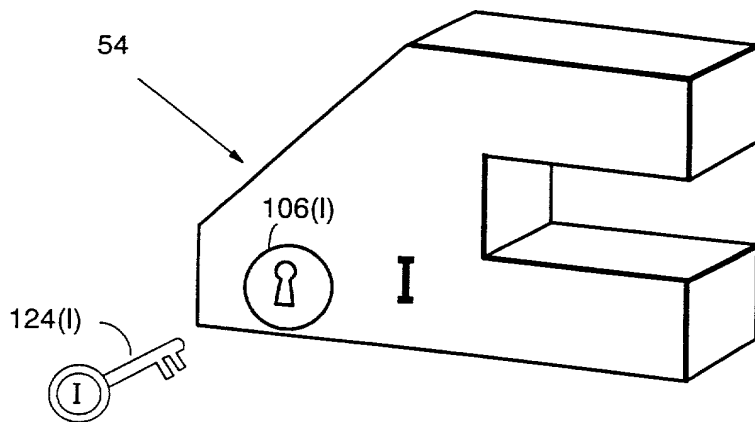


FIG. 11B Level II
Digital Signature

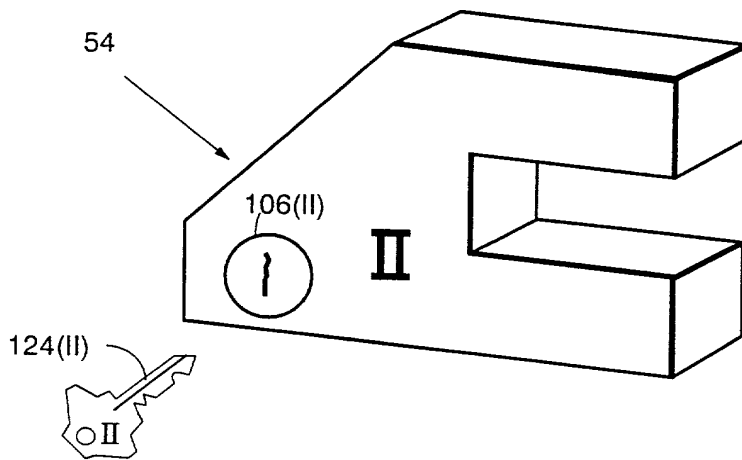


FIG. 11C Level III
Digital Signature

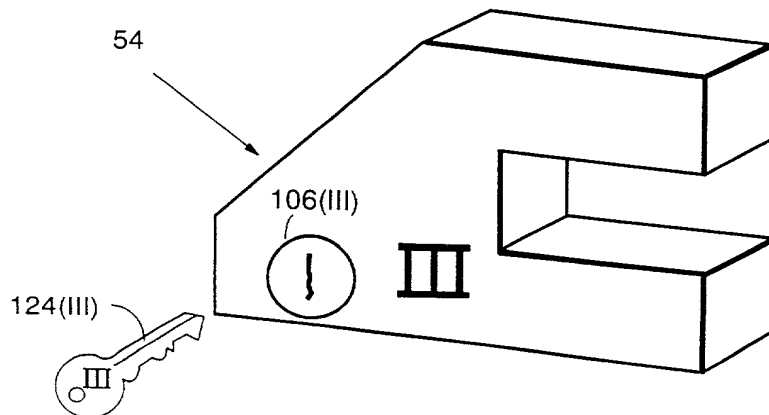


FIG. 13 Multiple Assurance Levels

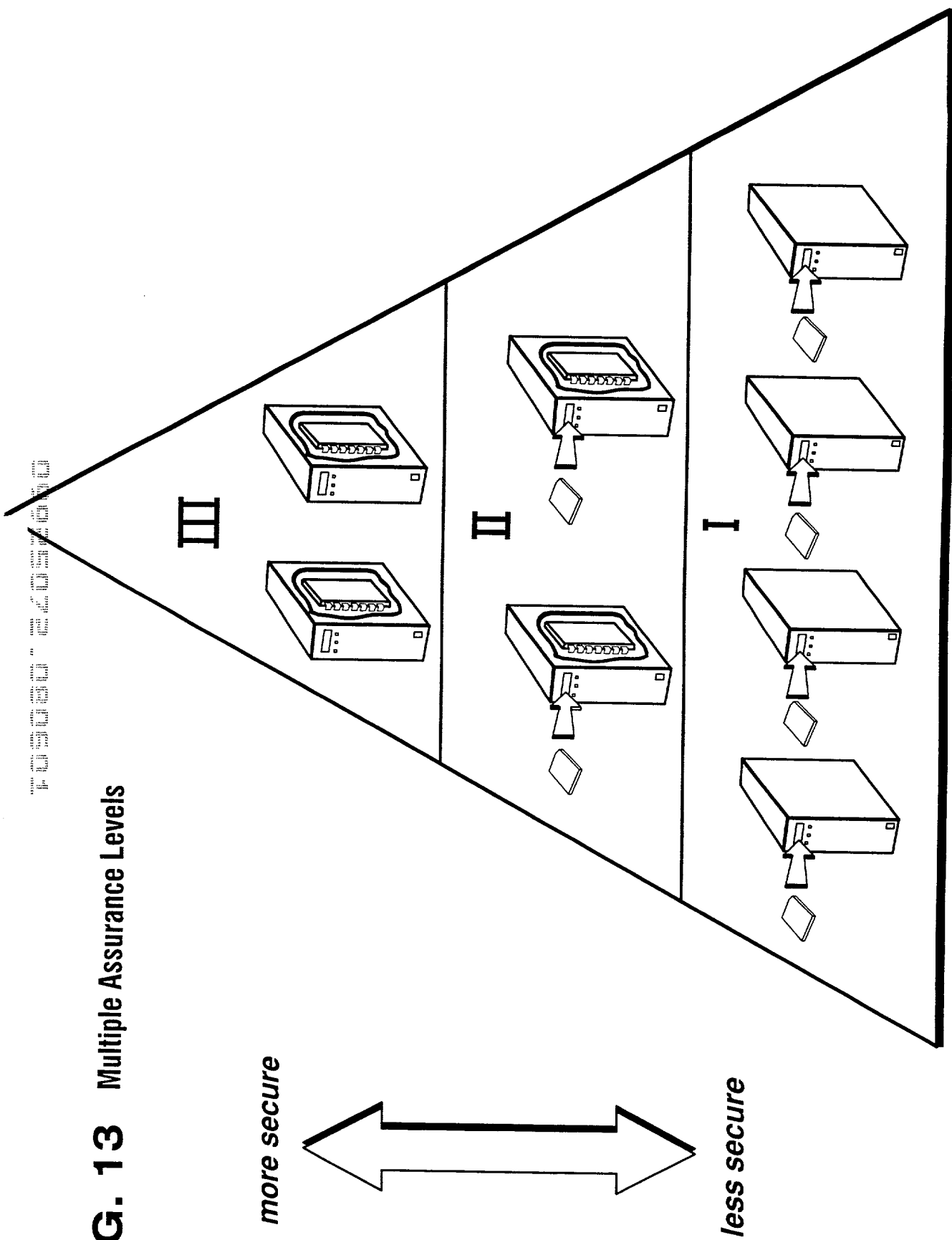
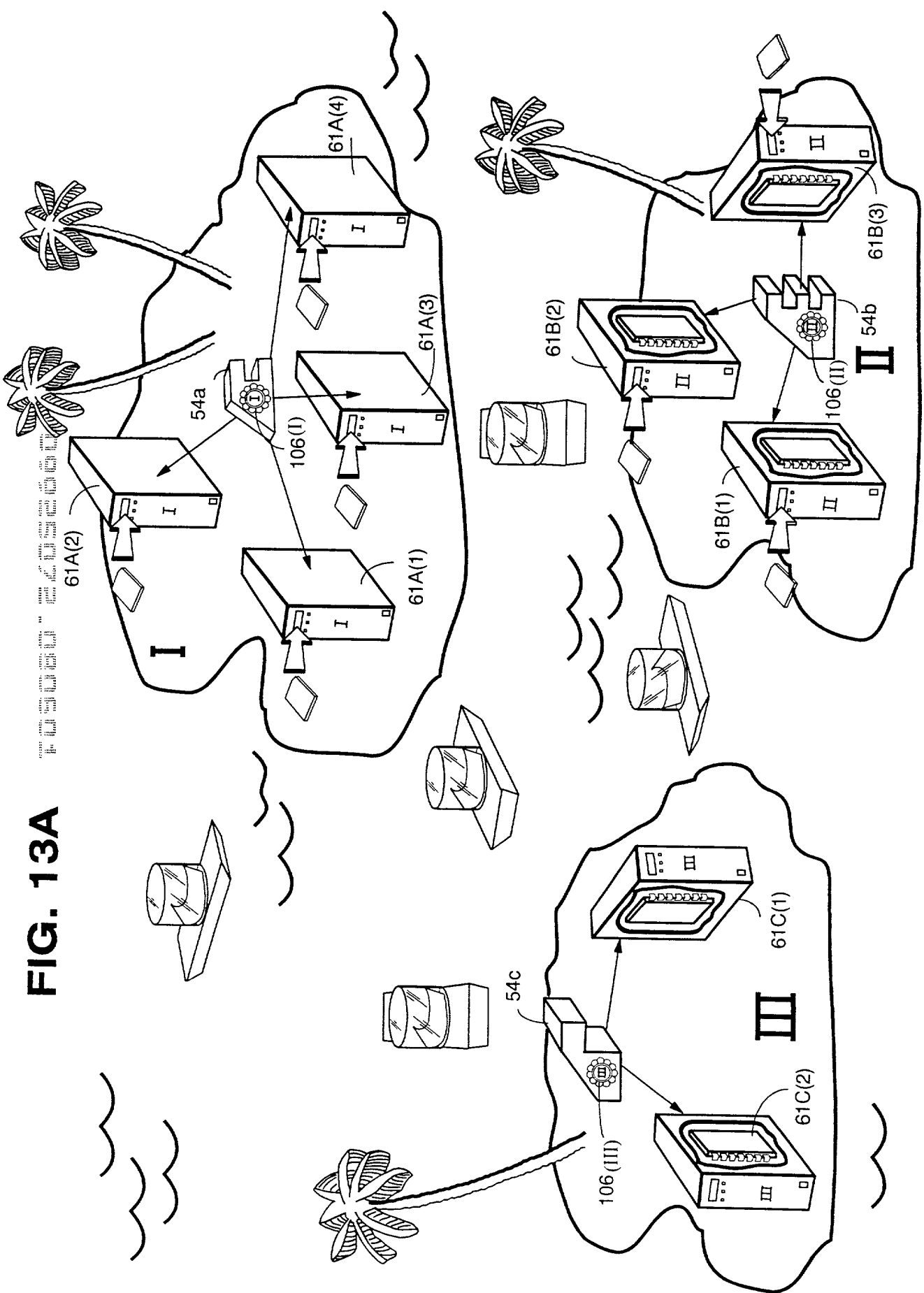


FIG. 13A



Provider of Executables

FIG. 14

